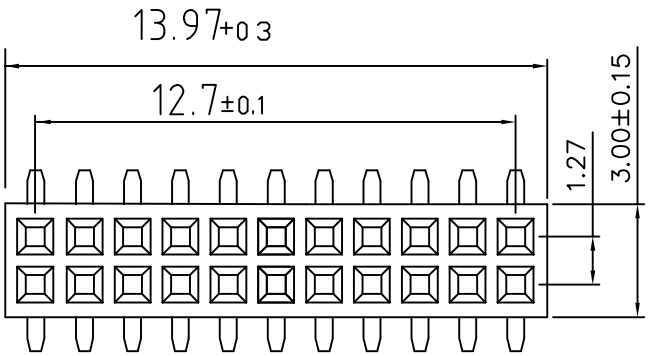
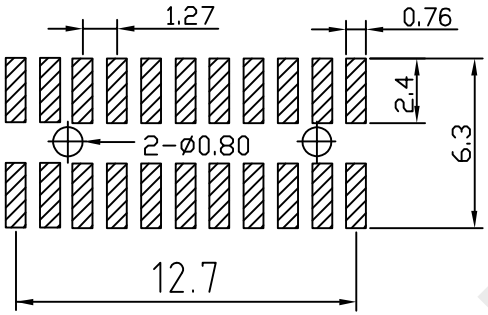


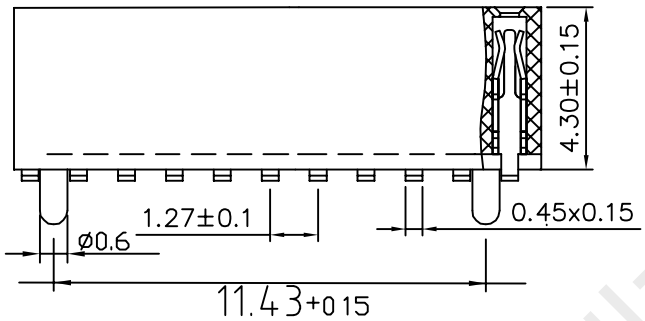



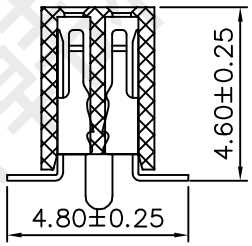

RECOMMEND P.C.B LAYOUT

PCB TOLERANCE:±0.05 (TOP VIEW)

## SPECIFICATIONS

| | |
|---|---|
| Current Rating: | 1.0 Amps |
| Withstanding Voltage: | AC 500V |
| Insulation Resistance: | 1000MΩ Min |
| Contact Resistance: | 20mΩ Max |
| Operation Temperature: | -40° to+105° |
| Insrlator Material: | Polyester(UL94V-0) |
| Contact Material: | Brass |
| Standard: | PA6T |
| Contact Plating: | Gold Flash |
| Max.Processing Temp: | 240° C for30-60seconds (260° C for5seconds) |

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UNLESS OTHEWIXE SPECIFIED TOLERANCE

X :±0.3 X? :±5°

X.X :±0.2 X.X? :±1°

X.XX:±0.1 X.XX° :±0.5°

| | | | | | |
|---|---|---|---|---|---|
| DRAWM NAME: | PM1.27-2x5PLT-H4.3-Z | | | | |
| SIZE | A4 | SCALE | N:1 | PROUCT NO. | |
| REV | A | UNIT | mm | PROJECT | PAGE 1/1 |
| DRAWN: 李春风 2020.8.25 | CHECKED: 钟华华 2020.8.25 | APPROVED: 罗孝金 2020.8.25 | | | |

| No.of | DIM.A | DIM.B | No. of | DIM.A | DIM.B | No. of | DIM.A | DIM.B | No. of | DIM.A | DIM.B | No. of | DIM.A | DIM.B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | — | — | 11 | 12.70 | 13.97 | 21 | 25.40 | 26.67 | 31 | 38.10 | 39.37 | 41 | 50.80 | 52.07 |
| 2 | 1.27 | 2.54 | 12 | 13.97 | 15.24 | 22 | 26.67 | 27.94 | 32 | 39.37 | 40.64 | 42 | 52.07 | 53.34 |
| 3 | 2.54 | 3.81 | 13 | 15.24 | 16.51 | 23 | 27.94 | 29.21 | 33 | 40.64 | 41.91 | 43 | 53.34 | 54.61 |
| 4 | 3.81 | 5.08 | 14 | 16.51 | 17.78 | 24 | 29.21 | 30.48 | 34 | 41.91 | 43.18 | 44 | 54.61 | 55.88 |
| 5 | 5.08 | 6.35 | 15 | 17.78 | 19.05 | 25 | 30.48 | 31.75 | 35 | 43.18 | 44.45 | 45 | 55.88 | 57.15 |
| 6 | 6.35 | 7.62 | 16 | 19.05 | 20.32 | 26 | 31.75 | 33.02 | 36 | 44.45 | 45.72 | 46 | 57.15 | 58.42 |
| 7 | 7.62 | 8.89 | 17 | 20.32 | 21.59 | 27 | 33.02 | 34.29 | 37 | 45.72 | 46.99 | 47 | 58.42 | 59.69 |
| 8 | 8.89 | 10.16 | 18 | 21.59 | 22.86 | 28 | 34.29 | 35.56 | 38 | 46.99 | 48.26 | 48 | 59.69 | 60.96 |
| 9 | 10.16 | 11.43 | 19 | 22.86 | 24.13 | 29 | 35.56 | 36.83 | 39 | 48.26 | 49.53 | 49 | 60.96 | 62.23 |
| 10 | 11.43 | 12.70 | 20 | 24.13 | 25.40 | 30 | 36.83 | 38.10 | 40 | 49.53 | 50.80 | 50 | 62.23 | 63.50 |

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深圳市首韩科技有限公司
SHENZHEN SHOUHAN TECHNOLOGYCO.,LTD
Tel: 0755-27597601 Fax: 0755-27597491

# 承 认 书

# SPECIFICATION FOR APPROVAL

产 品 编 码
Material code:

产品名称 Project: 排母

规格型号 Part No: PM1.27-2x5PLT-H4.3-Z

**贵公司承认印 Approval signatures**

| 料 号/Part No. | 签 章/Signatures |
|---|---|
| | |

日期 Date:

| | | |
|---|---|---|
| 拟制/Drawn | 李春风 | 深圳市首韩科技有限公司 工程专用章 |
| 审核/Check | 钟华华 | |
| 批准/Approved | 罗孝金 | |

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1、 SCOPE: (适用范围)

1.1 This specification covers production and inspection of Model PH Connector.

本规范内容适用于本公司 PH 系列型条形连接器产品的生产与检验.

**2、 USE CONDITION:** (使用条件)

**2.1 Ambient temperature Range:**-40℃～+105℃

环境温度：-40℃～+105℃

**2.2 Applicable Wire Sizes:/**

适用线规：/

**2.3 Applicable PC board thickness:1.2~1.6mm**

适用 PC 板厚度：1.2~1.6 mm

**3、 Appearance and Dimension:**（外观及尺寸）

**3.1 Appearance:Product surface without defect、dirt、crack、and mechanical damang, Contact without rust,plating not oxided and not peeled.**

产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤；接触件无锈蚀、镀层氧化、脱落等现象.

**3.2 Dimension:According to drawings**

外形尺寸：依照附图

**3.3 Exchangable:Exchangable with same specification products.**

互换性：相同规格应能互换

**4、Material:**

材 料

| P/N<br>零件名称 | Type<br>类 型 | Material<br>材 料 | Finish<br>表面处理 | Expiain<br>说 明 |
|---|---|---|---|---|
| Terminal<br>端子 | Contact<br>插 簧 | Phosphor bronze<br>锡青磷铜 厚 0.20mm | Tin Plating:2~3μm<br>镀锡：2~3μm | RoHS<br>Comp liant |
| Housing<br>孔 座 | Plastic<br>塑 壳 | Nylon66 UL94V-0 | Color: White<br>颜色：白色 | |
| Wafer<br>直针座<br>弯针座 | Plastic<br>塑 壳 | Nylon66 UL94V-0 | Color: White<br>颜色：白色 | |
| | Contact<br>插针 | Brass<br>黄铜 厚 0.50mm | Tin Plating:3~4μm<br>镀锡：3~4μm | |
| Wafer<br>卧贴针座<br>立贴针座 | Plastic<br>塑 壳 | Nylon9T UL94V-0 | Color: Beige<br>颜色：米色 | |
| | Contact<br>插针 | Brass<br>黄铜 厚 0.50mm | Tin Plating:3~4μm<br>镀锡：3~4μm | |
| | Solder tabs<br>焊护耳 | Phosphor bronze<br>锡青磷铜 厚 0.40mm | Tin Plating:3~4μm<br>镀锡：3~4μm | |

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**5、Electriacl Performance:**
电 气 性 能

| N 0 .<br>序号 | Ltem<br>项目 | Requirement<br>技术要求 |
|---|---|---|
| 5.1 | Voltage Rated<br>额定电压 | 125V AC DC |
| 5.2 | Current Rated<br>额定电流 | 1A AC DC |
| 5.3 | Contact Resistance<br>接触电阻 | ≤20mΩ |
| 5.4 | Insulation Resistance<br>绝触电阻 | ≥1000MΩ |
| 5.5 | Dielectric Strength<br>耐 压 | ≥500V AC/minute |

**6、Mechanical Performance:**
机 械 性 能

| N0.<br>序号 | Ltem<br>项 目 | Requirement<br>技术要求 |
|---|---|---|
| 6.1 | Male contact Retention force<br>PIN 针固定力 | ≥10N per pin |
| 6.2 | Female contactRetention force<br>端子固定力 | ≥10N per pin |
| 6.3 | Plug-in force<br>插入力 | ≤3N per pin |
| 6.4 | Plug-out force<br>拔出力 | ≥0.5N per pin |

**7、Endurance Characteristics:**
环 境 性 能

| N0.<br>序号 | Ltem<br>项 目 | Requirement<br>技术要求 |
|---|---|---|
| 7.1 | Soldering rest<br>可焊性 | Time:2.5±0.5S<br>时间：2.5±0.5S<br><br>Temperature:250±5℃<br>温度：250±5℃<br><br>Area of Soldering: ≥95%<br>焊锡面积： ≥95% |

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| | | |
|---|---|---|
| 7.2 | Resistance to soldering Heat<br>耐焊接热 | Time:5±1S<br>时间：5±1S<br><br>Temperature:250±5℃<br>温度：250±5℃<br><br>Appearance:NO Damage<br>外观：无损坏 |
| 7.3 | Heat test<br>耐热性 | Time:96h<br>时间：96 小时<br><br>Temperature:+85±3℃<br>温度：+85±3℃<br><br>Appearance:NO Damage<br>外观：无损坏<br><br>Contact resistance: ≤10 mΩ<br>接触电阻：≤10 mΩ |
| 7.4 | Cold test<br>耐冷性 | Time:48h<br>时间：48 小时<br><br>Temperature:-25±3℃<br>温度：-25±3℃<br><br>Appearance:NO Damage<br>外观：无损坏<br><br>Contact resistance: ≤10 mΩ<br>接触电阻：≤10 mΩ |
| 7.5 | Temperature Cycling<br>温度循环 | Low temperature:-25±3℃<br>低温：-25±3℃<br><br>High temperature:85±3℃<br>高温：85±3℃<br><br>For 5 cycles.test after keeping in Normal Condition for 30 min.<br><br>5 次循环后，放置在正常环境中 30 分钟，在进行测试<br><br>Appearance: NO Damage<br>外观：无损坏<br><br>Contact resistance: ≤10 mΩ<br>接触电阻：≤10 mΩ |

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| | | |
|---|---|---|
| 7.6 | lnvariab lenes humidity<br>恒定湿热 | Temperature:60±2℃<br>温度：60±2℃<br><br>Relative humidity:90%-96% RH<br>相对湿度：90%-96% RH<br><br>Tim:96h<br>时间：96 小时<br>Appearance:NO Damage<br>外观：无损坏<br><br>Contact resistance: ≤10 mΩ<br>接触电阻：≤10 mΩ<br><br>lnsulation Resistance: ≥1000MΩ<br>绝缘电阻：≥1000 MΩ |
| 7.7 | Salt Spray<br>盐雾试验 | Salt concentration: 5±1%<br>浓度：5±1%<br><br>Temperature:35±2℃<br>温度：35±2℃<br><br>Tim:16±2h<br>时间：16±2 小时<br><br>After salt is removed by running wafer and A drop is removed ,it is measured.<br><br>把试验样品从试验箱顶悬挂下来，采用浓度（5±1）%的氯化钠溶液，连续雾化 16 小时，试验后用流动的蒸馏水轻轻洗去表面沉积物，在常温常驻湿条件下恢复 1-2 小时，外观无损伤<br><br>Appearance:NO Damage<br>外观：无损坏<br><br>Contact resistance: ≤10 mΩ<br>接触电阻：≤10 mΩ |

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## 8、Packaging Transportation Storage

包装、运输、贮存

### 8.1 Packaging

包装

（1） **The packing of plastic inner is the plastic bag,the packing of inner terminal is panel mounting attach material packing, marked with product name, specification model, quantity, date in produced.**

塑件内包装为塑料袋，端子内包装为盘装带料包装，装（贴）入合格证，注明产品名称、规格型号、数量生产日期

（2） **Exterior package is carton, facing the packing list, the packing list marked with product name, specificcation model, quantity, date of dispatch.**

外包装为纸箱，贴装箱单、装箱单上注明产品名称、规格型号、数量、出货日期

（3） **The product in the box must not rock.**

产品在箱内不晃动

### 8.2 Transportation

运输

**Allow for any way transportation, can't get wet and mechanical in jury.**

允许用任何方式运输，勿淋湿及机械性损伤

### 8.3 Storage

贮存

**The connector of packing finished should be in the ambient temperature between-10℃ to+40℃, Relative humidity≤80%. To store in storehouse does not have acidic, alkaline air and other corrosive gas in the ambient air.**

包装完毕的连接器应在环境温度为-10℃~+40℃，相对湿度≤80%，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存

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